

FIG. 1

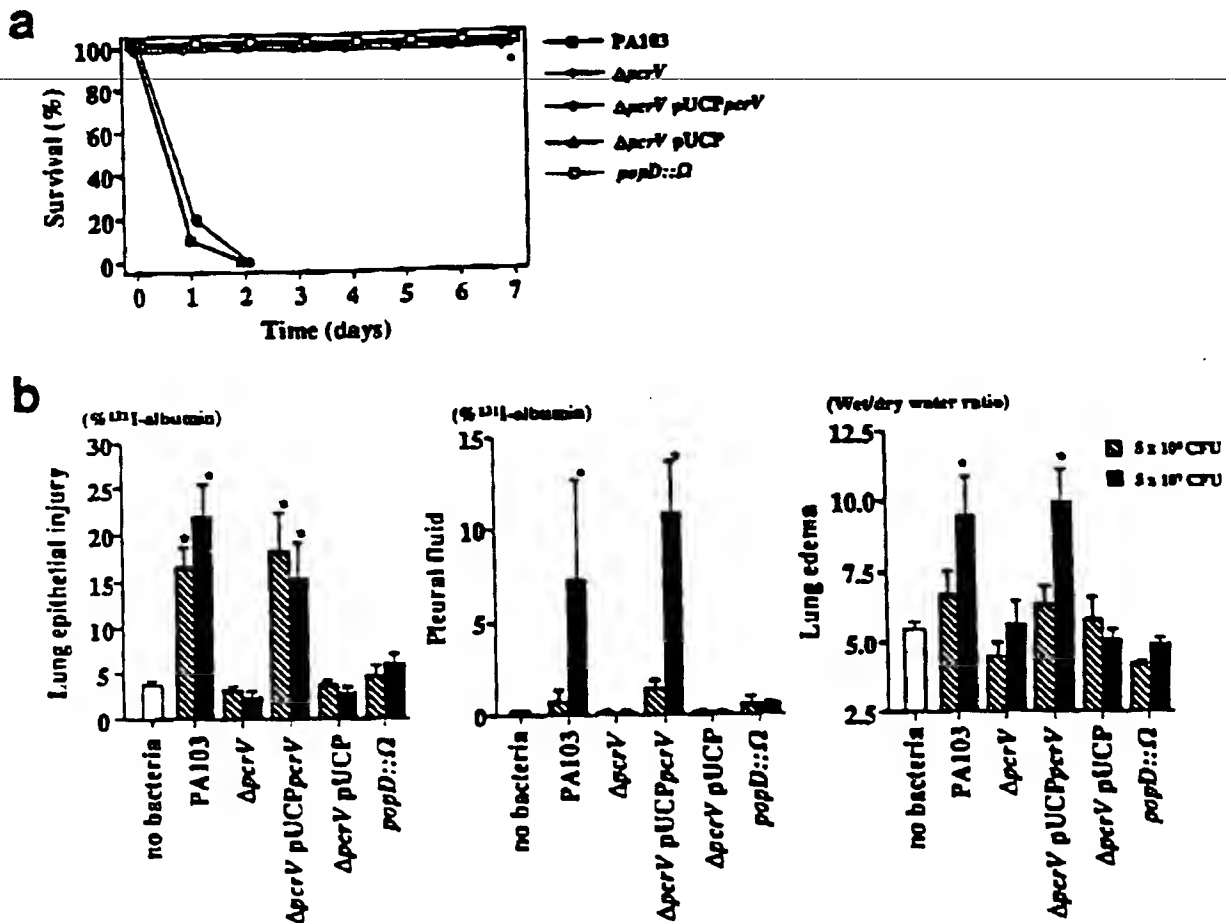
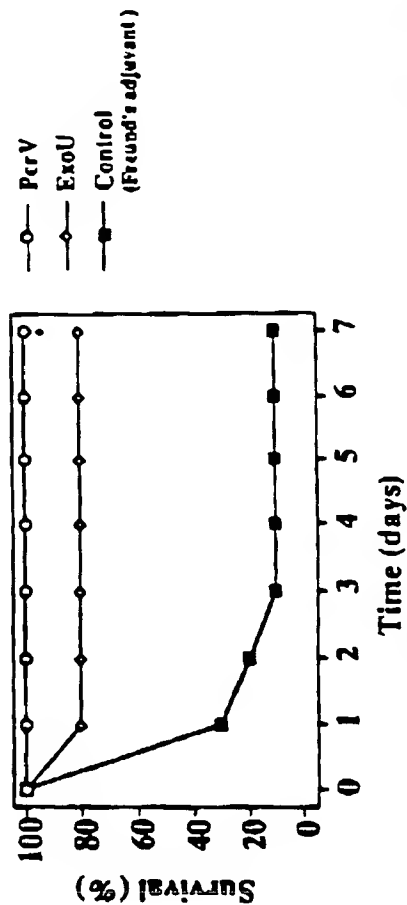


FIG. 2

a



b

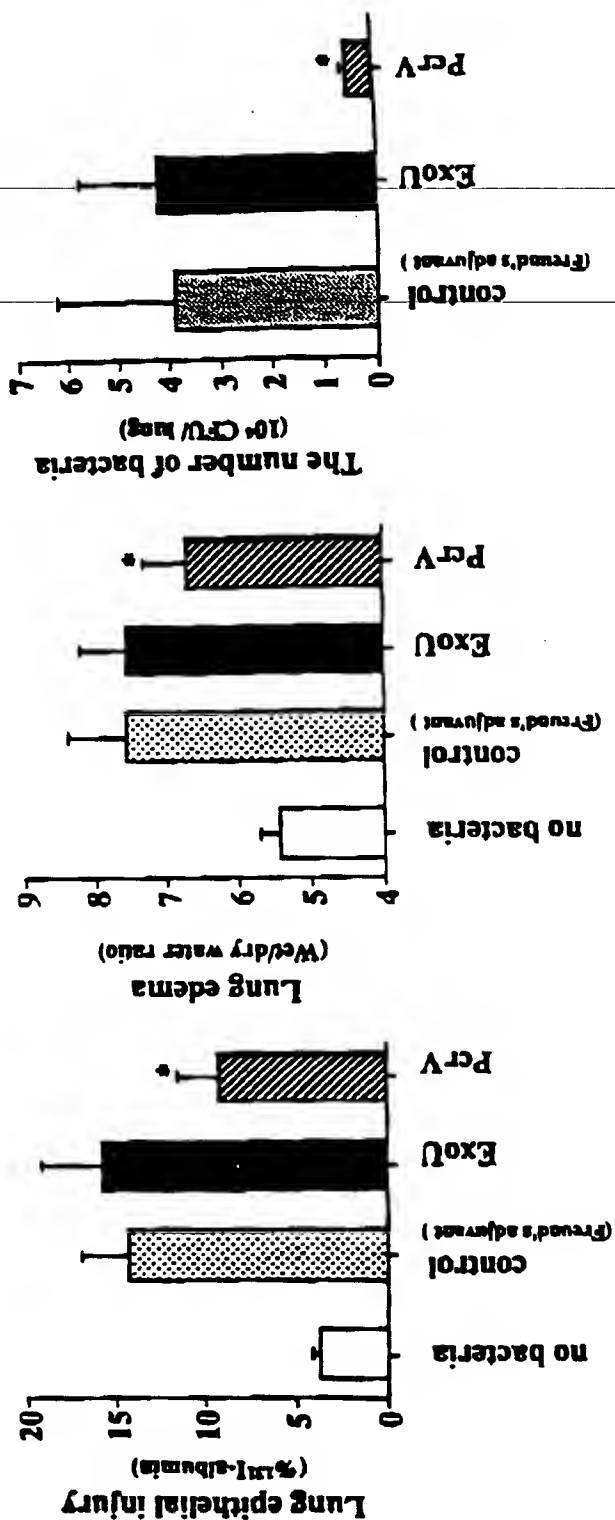


FIG. 3

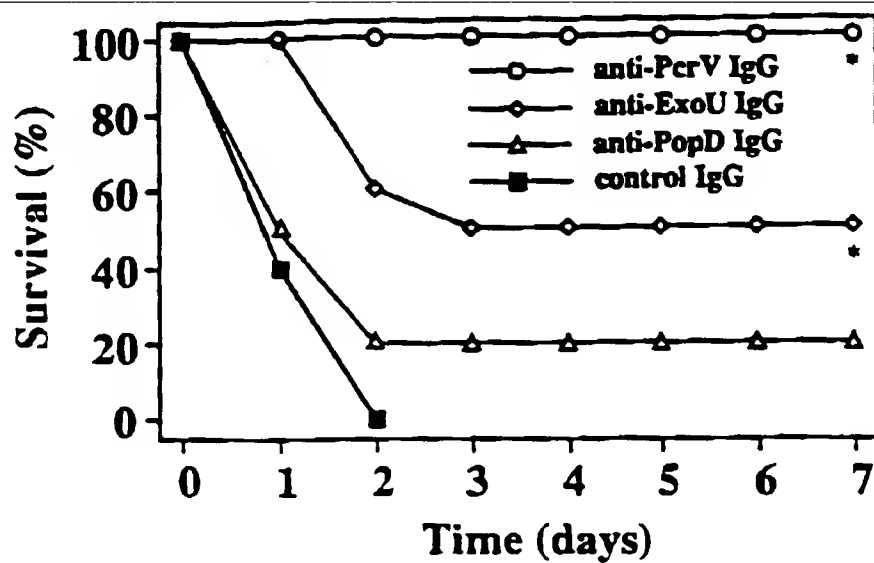
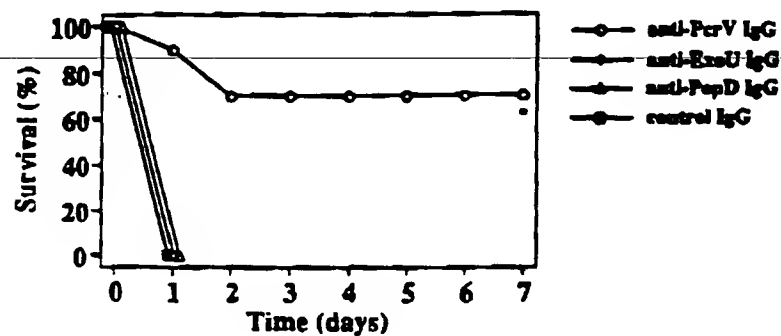


FIG. 4

a



b

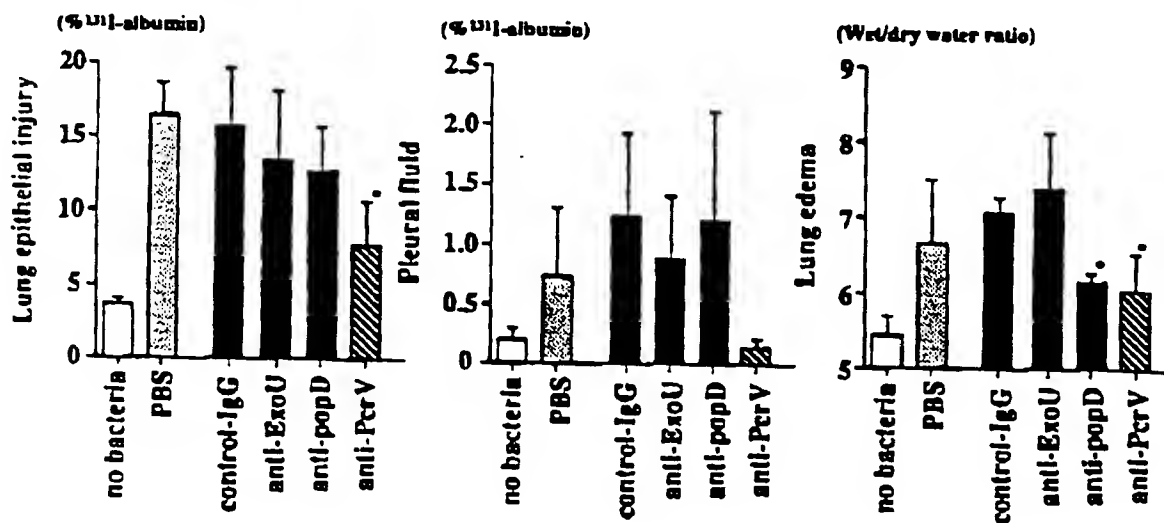


FIG. 5

m166 heavy chain

1. m166 heavy chain (IgG2b) complete mRNA sequence:

(From the transcriptional start point to the polyA-tail)

```

.....
CCATCCTCTT CTCATAGAGC CTCCATCAGA GCATGGCTGT CTTGGGGCTG
CTCTTCTGCC TGGTGACATT CCCAAGCTGT GTCCTATCCC AGGTGCAGCT
GAAGCAGTCA GGACCTGGCC TAGTGCAGCC CTCACAGAGC CTGTCCATCA
CCTGCACAGT CTCTGGTTTC TCATTAACTA GCTATGGTGT AACTGGGTT
CGTCAGTCTC CAGGAAAGGG TCTGGAGTGG CTGGGAGTGA TATGGAGTGG
TGGAGACACA GACTATAATG CAGCTTTCAT ATCCAGACTG AGCATCAGCA
AGGACAATTC CAAGAGCCAA CTCTTCTTTA AAATGAACAG TCTGCCAGCT
ACTGACACAG CCATATATTA CTGTGCCAGA AATAGAGGGG ATATTTACTA
TGATTTCACT TATGCCATGG ACTACTGGGG TCAAGGAACC TCAGTCACCG
TCTCCTCAGC CAAAACAACA CCCCATCAG TCTATCCACT GGCCCTGGG
TGTGGAGATA CAACTGGTTC CTCCGTGACT CTGGGATGCC TGGTCAAGGG
CTACTTCCCT GAGTCAGTGA CTGTGACTTG GAACTCTGGA TCCCTGTCCA
GCAGTGTGCA CACCTTCCCA GCTCTCCTGC AGTCTGGACT CTACACTATG
AGCAGCTCAG TGACTGTCCC CTCCAGCACC TGGCCAAGTC AGACCGTCAC
CTGCAGCGTT GCTCACCCAG CCAGCAGCAC CACGGTGGAC AAAAAACTTG
AGCCCAGCGG GCCCATTTC ACAAATCAACC CCTGTCCTCC ATGCAAGGAG
TGTCACAAAT GCCCAGCTCC TAACCTCGAG GGTGGACCAT CCGTCTTCAT
CTTCCCTCCA AATATCAAGG ATGTACTCAT GATCTCCCTG ACACCCAAGG
TCACGTGTGT GGTGGTGGAT GTGAGCGAGG ATGACCCAGA CGTCCAGATC
AGCTGGTTTG TGAACAACGT GGAAGTACAC ACAGCTCAGA CACAAACCCA
TAGAGAGGAT TACAACAGTA CTATCCGGGT GGTGAGCACC CTCCCATCC
AGCACCAGGA CTGGATGAGT GGCAAGGAGT TCAAATGCAA GGTCAACAAC
AAAGACCTCC CATCACCCAT CGAGAGAACC ATCTCAAAAA TTAAAGGGCT
AGTCAGAGCT CCACAAGTAT ACATCTTGCC GCCACCAGCA GAGCAGTTGT
CCAGGAAAGA TGTAGTCTC ACTTGCCTGG TCGTGGGCTT CAACCTGGA
GACATCAGTG TGGAGTGGAC CAGCAATGGG CATAAGAGG AGAACTACAA
GGACACCGCA CCAGTCTTGG ACTCTGACGG TTCTTACTTC ATATATAGCA
AGCTCAATAT GAAAACAAGC AAGTGGGAGA AAACAGATTG CTTCTCATGC
AACGTGAGAC ACGAGGGTCT GAAAAATTAC TACCTGAAGA AGACCATCTC
CCGGTCTCCG GGTAAATGAG CTCAGCAGCC ACAAGCTCT CAGGTCCTAA
GAGACACTGG CACCCATATC CATGCATCCC TTGTATAAAT AAAGCATCCA
GCAAAGCCTG GTACCATGTA AAAAAAAAAA AAAAAAAAAA
.....

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FIG. 6A

2. m166 heavy chain (IgG2b) complete amino acid sequence:

(From the start codon to the stop codon)

.....
 MAVLGLLFCL VTFPSCVLSQ VOLKQSGPGL VQPSQSLST CTVSGFSLTS
 YGVHWVROSP GKGLEWLGVI WSGGDTDYNA AFISRLSISK DNSKSQLEFFK
 MNSLRATDTA IYYCARNRGD IYYDFTYAMD YWGQTSVTV SSAKTTPPSV
 YPLAPGCGDT TGSSVTLGCL VKGYFPESVT VTWNSGSLSS SVHTFPALLQ
 SGLYTMSSSV TVPSTWPSQ TVTCSVAHPA SSTTVDKKLE PSGPISTINP
 CPPCKECHKC PAPNLEGGPS VFIFPPNIKD VLMISLTPKV TCVVVDVSED
 DDPVQISWFV NNVEVHTAQT QTHREDYNST IRVVSTLPIQ HQDWMSGKEF
 KCKVNNKDLF SPIERTISKI KGLVRAPQVY ILPPPAEQLS RKDVSLTCLV
 VGFNPGDISV EWTNNGHTEE NYKDTAPVLD SDGSYFIYSK LNMKTSKWEK
 TDSFSCNVRH EGLKNYYLKK TISRSPGK[STOP]

[Sig-pep] MAVLGLLFCLVTFPSCVLS

[VH-region]

FR1: QVOLKQSGPGLVQPSQSLSTCTVSGFSLT
 CDR1: SYGVH
 FR2: WVRQSPGKGLEWLG
 CDR2: VIWSGGDTDYNAAFIS
 FR3: RLSISKDNSKSQLEFFKMNSLRATDTAIYYCAR
 CDR3: NRGDIYYDFTYAMDY
 FR4: WGQTSVTVSS

[CH-region]

CH:
 AKTTPPSVYP LAPGCGDTTG SSVTLGCLVK GYFPESVTVT WNSGSLSSSV
 HTFPALLQSG LYTMSSSVTV PSSTWPSQTV TCSVAHPASS TTVDKKLEPS
 GPISTINPCF PCKECHKCPA PNLEGGPSVF IFPPNIKDVL MISLTPKVTC
 VVVDVSEDDP DVQISWFVNN VEVHTAQTQT HREDYNSTIR VVSTLPIQHQ
 DWMSGKEFKC KVNKDLFSP IERTISKIKG LVRAPQVYIL PPPAEQLSRK
 DVSLTCLVVG FNPGDISEV TSNGHTEENY KDTAPVLDSD GSYFIYSKLN
 MKTSKWEKTD SFSCNVRHEG LKNYYLKKTI SRSPGK[STOP]

FIG. 6B

FIG. 6B

m166 light chain

1. m166 light chain (k) complete mRNA sequence:

(From the transcriptional start point to the polyA tail)

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.....
ACACCCTTTG CTGGAGTCAG AATCACA CTG ATCACACACA GTCATGAGTG
TGCTCACTCA GGTCTGGCG TTGCTGCTGC TGTGGCTTAC AGGTGCCAGA
TGTGACATCC AGATGACTCA GTCCTCAGCC TCCCTATCTG CATCTGTGGG
AGAAACTGTC ACCATCACAT GTCGAGCAAG TGGGAATATT CAAAATTATT
TAGCATGGTA TCAGCAGACA CAGGGAAAAT CTCCTCAGCT CCTGGTCTAT
TCTGCAAAAA CCTTAGCAGA TGGTGTGCCA TCAAGGTTCA GTGGCAGTGG
ATCAGGAACA CAATATTCTC TCAAGATCAA CAGCCTGCAG CCTGAAGATT
TTGGGAGTTA TTACTGTCAA CATTTTGGG GTACTCCGTA CACGTTCCGA
GGGGGGACCA AGCTGGAAAT AAAACGGGCT GATGCTGCAC CAACTGTATC
CATCTTCCCA CCATCCAGTG AGCAGTTAAC ATCTGGAGGT GCCTCAGTCG
TGTGCTTCTT GAACAACCTC TACCCCAAAG ACATCAATGT CAAGTGAAG
ATTGATGGCA GTGAACGACA AAATGGCGTC CTGAACAGTT GGACTGATCA
GGACAGCAA GACAGCACCT ACAGCATGAG CAGCACCTC ACGTTGACCA
AGGACGAGTA TGAACGACAT AACAGCTATA CCTGTGAGGC CACTCACAAG
ACATCAACTT CACCCATTGT CAAGAGCTT AACAGGAATG AGTGTTAGAG
ACAAAGGTCC TGAGACGCCA CCACCAGCTC CCCAGCTCCA TCCTATCTTC
CCTTCTAAGG TCTTGGAGGC TTCCCCACAA GCGACCTACC ACTGTTGCGG
TGCTCCAAAC CTCCTCCCA CCTCCTTCTC CTCCTCCTCC CTTTCCTTGG
CTTTTATCAT GCTAATATT GCAGAAAATA TTCAATAAAG TGAGTCTTTG
CAAAAAAAAA AAAAAAAAA AAAAAAAAA
.....

```

2. m166 light chain (k) amino acid complete sequence:

(From the start codon to the stop codon)

```

.....
MSVLTQVLAL LLLWLTGARC DIQMTQSPAS LSASVGETVT ITCRASGNIQ
NYLAWYQQTQ GKSPQLLVYS AKTLADGVPS RFSGSGSGTQ YSLKINSLOP
EDFGSYQCQ FWSTPYTFGG GTKLEIKRAD AAPTVSIFPP SSEQLTSGGA
SVVCFLNNFY PKDINVKKWI DGSERQNGVL NSWTDQDSKD STYSMSSTLT
LTKDEYERHN SYTCEATHKT STSPIVKSFN RNEC (STOP)
.....

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[Sig-pep] MSVLTQVLALLLLWLTGARC

[VL-region]

FR1: DIQMTQSPASLSASVGETVTITC

CDR1: RASGNIQNYLA

FR2: WYQQTQ GKSPQLLVY

CDR2: SAKTLAD

FR3: GVPSRFSGSGSGTQYSLKINSLOPEDFGSYQC

CDR3: QHFWSTPYT

FR4: FGGGTKLEIKR

[CL-region]

CL: ADAAPTVSIFPPSSEQLTSGGASVVCFLNNFYPKDINVKKIDGSERQNGVL
NSWTDQDSKDSTYSMSSTLT LTKDEYERHNSYTCEATHKTSTSPIVKSFN RNEC (STOP)

FIG. 7